



## NetVanta 2000 Series Technical Note

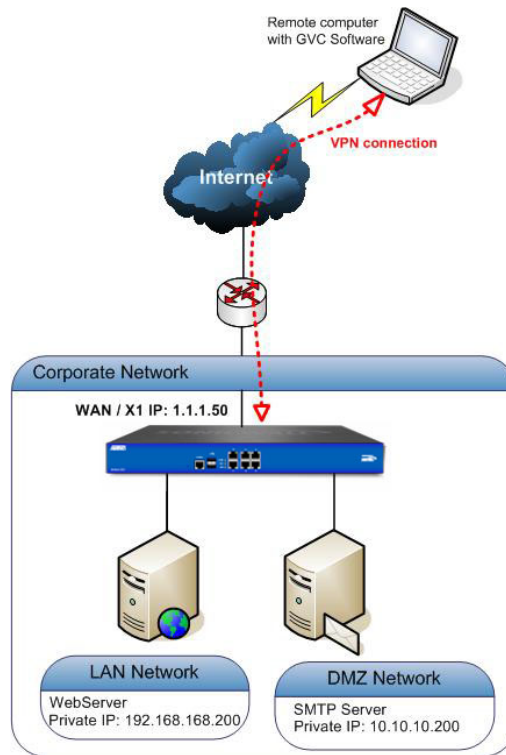
# How to Configure WAN GroupVPN on the NetVanta 2000 Series to connect using Global VPN Client



*This document is applicable to NetVanta 2600 series, 2700 series, and 2800 series units.*

### Feature/Application:

The NetVanta 2000 Series has the functionality to allow remote users to connect to the network behind the NetVanta 2000 Series using Global VPN Client software using IPSEC VPN protocol. This article focuses on the configuration of WAN Group VPN settings on the NetVanta 2000 Series appliance so that a remote computer can access the corporate network behind the NetVanta 2000 Series using the **Public IP 1.1.1.50**



## Deployment steps:

**To configure the NetVanta 2000 Series to accept GVC connections three steps have to be performed. These steps can be achieved either by following the wizard or manually.**

**Step 1:** Configure WAN GroupVPN on the NetVanta 2000 Series appliance (In this section we will select the Encryption, authentication options and GVC client settings).

**Step 2:** Configure DHCP over VPN on the NetVanta 2000 Series appliance (In this section we will configure NetVanta 2000 Series to assign virtual IP addresses to GVC software).

**Step 3:** Configure User accounts on the NetVanta 2000 Series appliance (In this section we will create user accounts for GVC users and also Add subnets or IP addresses that the GVC users need to access.)

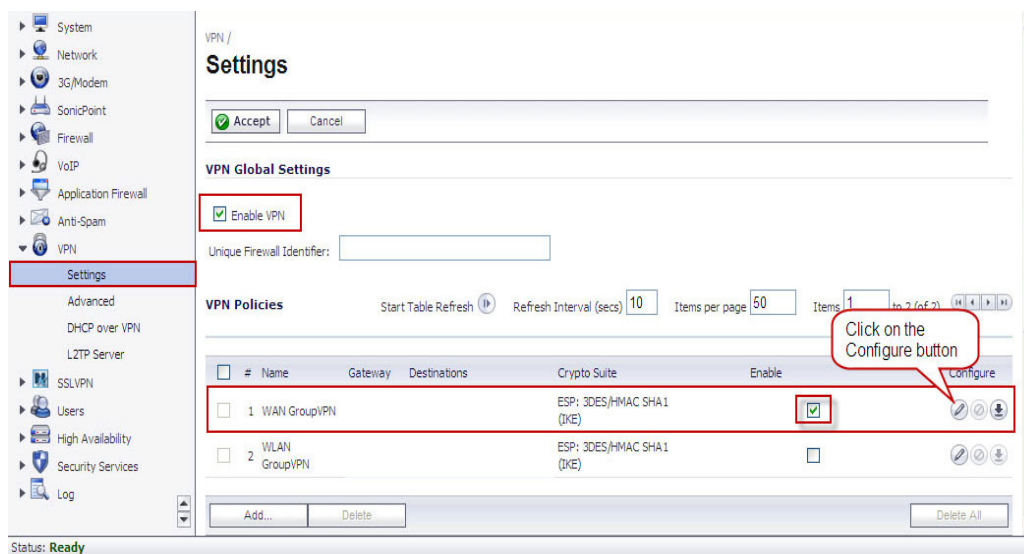
**Step 4:** How to Test

## Procedure:

**Step 1: Configure WAN group VPN on the NetVanta 2000 Series appliance.**


**To configure the WAN GroupVPN, follow these steps:**

1. Login to the NetVanta 2000 Series Management Interface; go to **VPN > Settings** page.
2. Make sure that the **Enable VPN** and **WAN GroupVPN** check boxes are enabled:



3. Click the configure icon for the **WAN GroupVPN** entry. The VPN Policy window is displayed

4. In the **General** tab, **IKE using Preshared Secret** is the default setting for **Authentication Method**. Enter a shared secret in the **Shared Secret** Field.



The screenshot displays the configuration interface for the ADTRAN Network Security Appliance. At the top, the ADTRAN logo and "Network Security Appliance" are visible. Below the logo, there are four tabs: "General", "Proposals", "Advanced", and "Client". The "General" tab is selected and highlighted with a red box. Underneath the tabs, the "Security Policy" section is shown. It contains three fields: "Authentication Method" set to "IKE using Preshared Secret", "Name" set to "WAN GroupVPN", and "Shared Secret" set to "adtrantest". The "Shared Secret" field is also highlighted with a red box. At the bottom of the configuration area, there is a "Ready" status bar and three buttons: "OK", "Cancel", and "Help".

5. Click the **Proposals** tab, use the **default settings** or choose the desired Encryption and Authentication options.

<p><b><u>IKE ( Phase 1 ) Proposal</u></b></p> <p><b>DH Group :</b> Group 2</p> <p><b>Encryption :</b> 3DES</p> <p><b>Authentication :</b> SHA1</p> <p><b>Life Time (seconds) :</b> 28800</p> <p><b><u>Ipssec (Phase 2) Proposal</u></b></p> <p><b>Phase 2</b></p> <p><b>Protocol :</b> ESP</p> <p><b>Encryption :</b> 3DES</p> <p><b>Authentication :</b> SHA1</p> <p><b>Life Time (seconds) :</b> 28800</p> <p>Select <b>Enable Perfect Forward Secrecy</b> if you want an additional Diffie-Hellman key exchange as an added layer of security. Select Group 2 from the DH Group menu.</p> <p><b>Note:</b> The Windows 2000 L2TP client and Windows XP L2TP client can only work with DH Group 2. They are incompatible with DH Groups 1 and 5.</p>	
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6. Click the **Advanced** tab.**Enable Windows Networking (NetBIOS) broadcast -**

Allows access to remote network resources by browsing

the Windows® Network Neighborhood.

**Require Authentication of VPN Clients via XAUTH -**

So that all the users connecting to the corporate network

are authenticated.

Unauthenticated traffic will not be allowed

on to connect. The Trusted users group is selected by default.

**Management via this SA: -**  
Optionally, if you want the Remote

users to manage the NetVanta 2000 Series security appliance,

select the management method, either HTTP or HTTPS.

The screenshot displays the configuration page for the ADTRAN Network Security Appliance, specifically the 'Advanced' tab. The interface includes a header with the ADTRAN logo and 'Network Security Appliance' text. Below the header are four tabs: 'General', 'Proposals', 'Advanced' (which is selected), and 'Client'. The main content area is divided into two sections: 'Advanced Settings' and 'Client Authentication'. In the 'Advanced Settings' section, the checkbox for 'Enable Windows Networking (NetBIOS) Broadcast' is checked and highlighted with a red box. Other options include 'Enable Multicast' (unchecked), 'Management via this SA:' (with options for HTTP, HTTPS, and SSH, all unchecked), and 'Default Gateway:' (set to 0.0.0.0). The 'Client Authentication' section features a checked checkbox for 'Require authentication of VPN clients by XAUTH', also highlighted with a red box. Below this, the 'User group for XAUTH users:' is set to 'Trusted Users' via a dropdown menu, and 'Allow Unauthenticated VPN Client Access:' is set to '--Select Local Network--'. At the bottom of the configuration area, a status bar shows 'Ready'. Three buttons are located at the very bottom: 'OK', 'Cancel', and 'Help'.

7. Click the **Client** tab, select the following settings.

<p><b>Cache XAUTH User Name and Password on Client :</b> Single session</p> <p><b>Virtual Adapter Settings:</b> DHCP Lease</p> <p><b>Allow Connections to:</b> Split Tunnels</p> <p><b>Set Default Route as this Gateway:</b> Disable</p> <p><b>Use Default Key for Simple Client Provisioning:</b> Disable</p>	
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8. Click **OK**

**Step 2: Configure DHCP over VPN.**

To configure **DHCP over VPN** for the Central Gateway, use the following steps:

1. Select **VPN > DHCP over VPN**, select **Central Gateway** from the menu.
2. Click **Configure**. The DHCP over VPN Configuration window is displayed

3. Select **Use Internal DHCP Server** if the NetVanta 2000 Series is the DHCP server. Check the **For Global VPN Client** checkbox to use the DHCP Server for Global VPN Clients.

If you want to send DHCP requests to specific servers, select **Send DHCP requests to the server addresses listed below**.

Click **Add**.

Type the IP addresses of **DHCP servers** in the IP Address field.

Click **OK**.

**The NetVanta 2000 Series security appliance now directs DHCP requests to the specified servers.**

### Step 3: Configure User Accounts

To configure User accounts, use the following steps:

#### 1. Select Users > Local Users

#### 2. Click on **Add User**

3. Under the **settings** tab give the desired **name** and **password**

4. Go to the **Groups Tab**, user should be **member of trusted users**.

5. Go to VPN access tab, select the subnet that the user need to access.

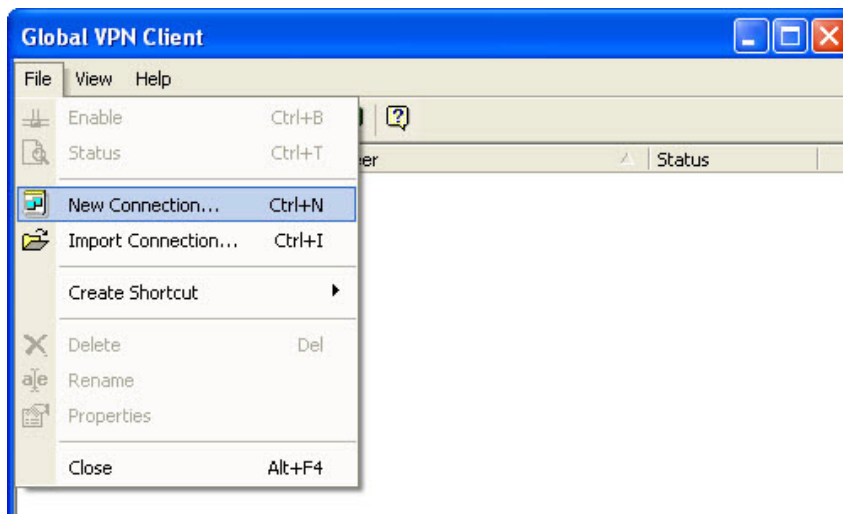
**Example:** If you want GVC users to access VPN networks, add them to **Access List** section.

6. Click **OK**

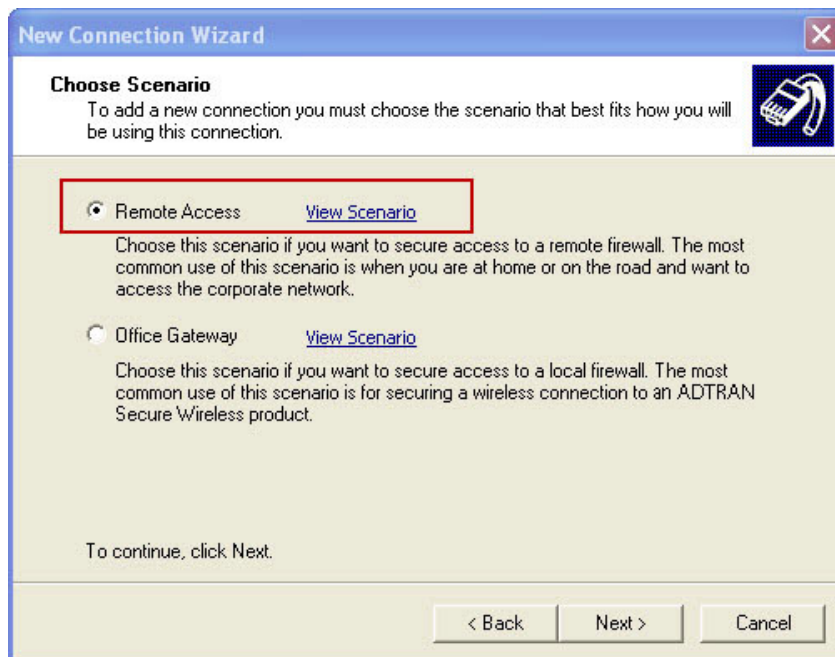


**Step 4: How to Test: Using GVC software installed on the remote computer to connect to the corporate network.**

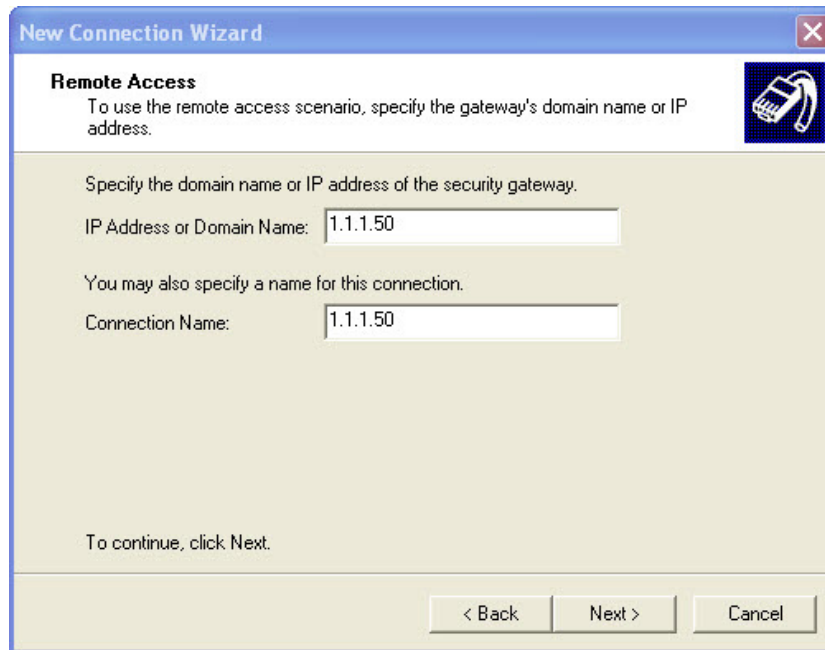
1. Install the latest GVC software on the remote user's computer
2. Launch the Global VPN Client software
3. Click on **File > New Connection** and click **Next**



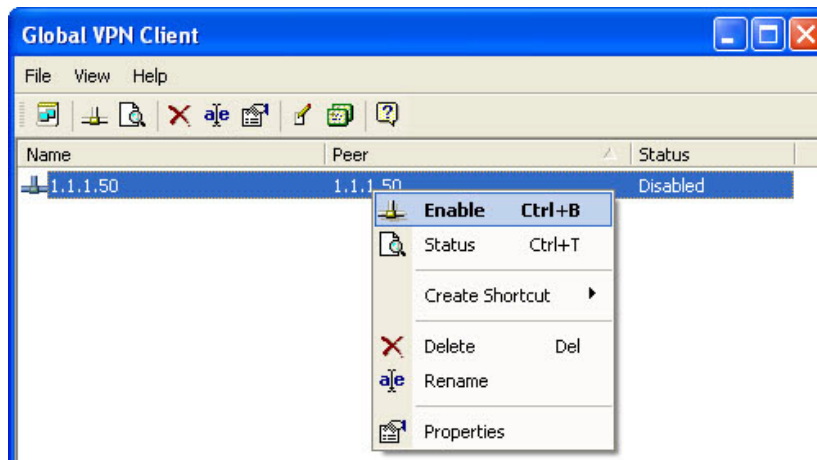
4. Select **Remote access** and click **Next**

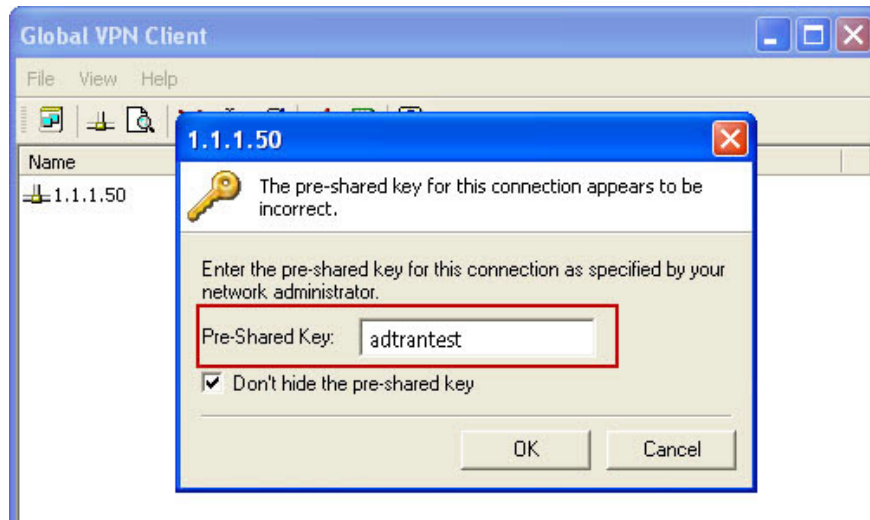
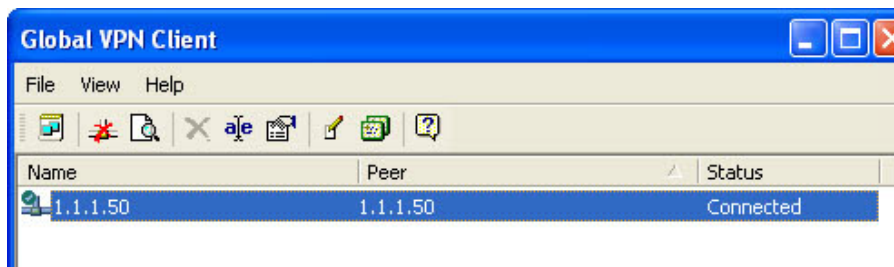


5. Under IP address enter the **WAN / X1 IP** of the NetVanta 2000 Series , click **Next** and click **Finish**

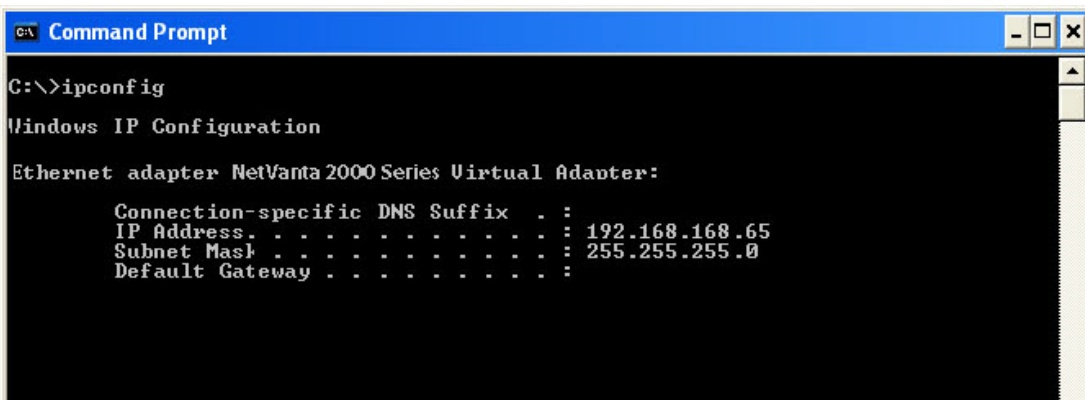


6. Right click on the new connection that is created and click **Enable**



**7. Enter the preshared secret for the connection****8. Enter the username and password for the connection****9. After entering the username and password, the adapter will try to acquire an IP address and then change to Connected status.**

**10.** To check the **IP** address for the NetVanta 2000 Series virtual adapter, go to the command prompt on the computer and type the command **IPCONFIG**



```
C:\>ipconfig

Windows IP Configuration

Ethernet adapter NetVanta 2000 Series Virtual Adapter:

    Connection-specific DNS Suffix  . : 
    IP Address . . . . . : 192.168.168.65
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . :
```